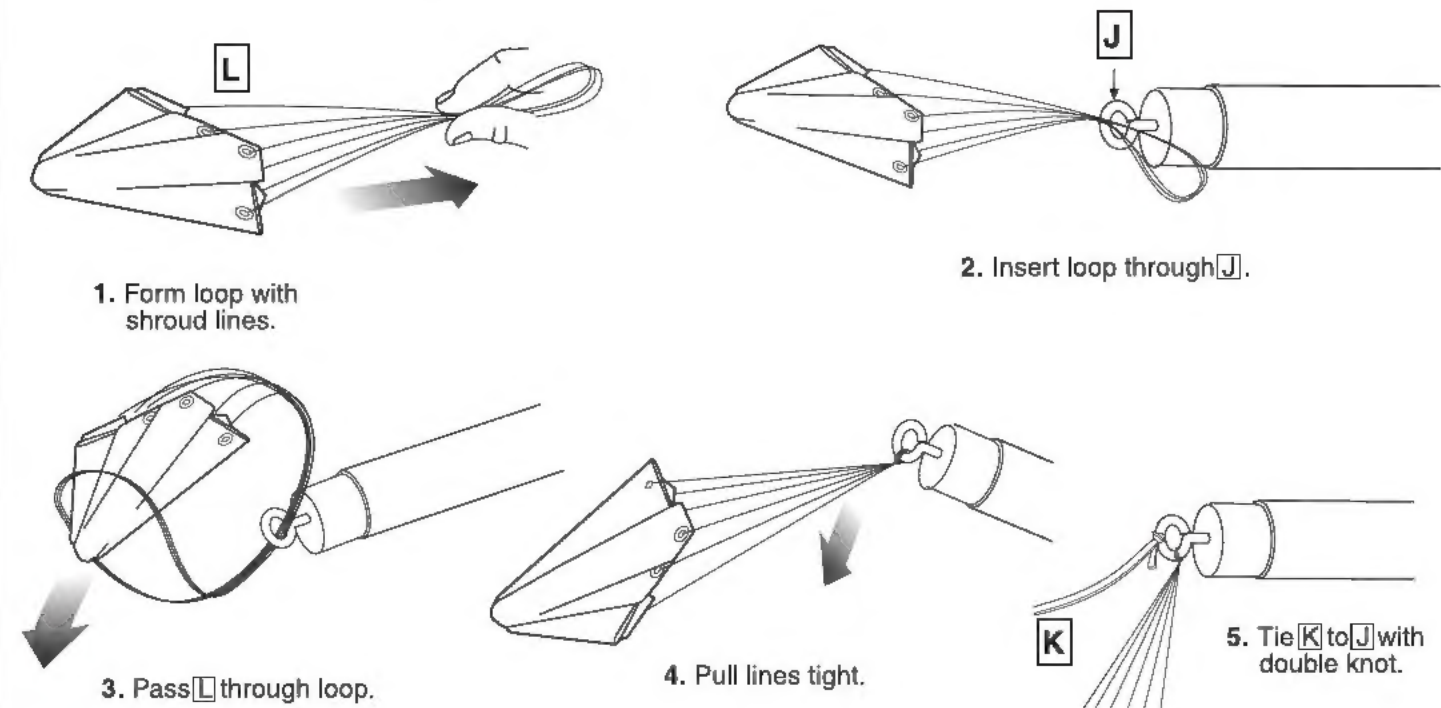


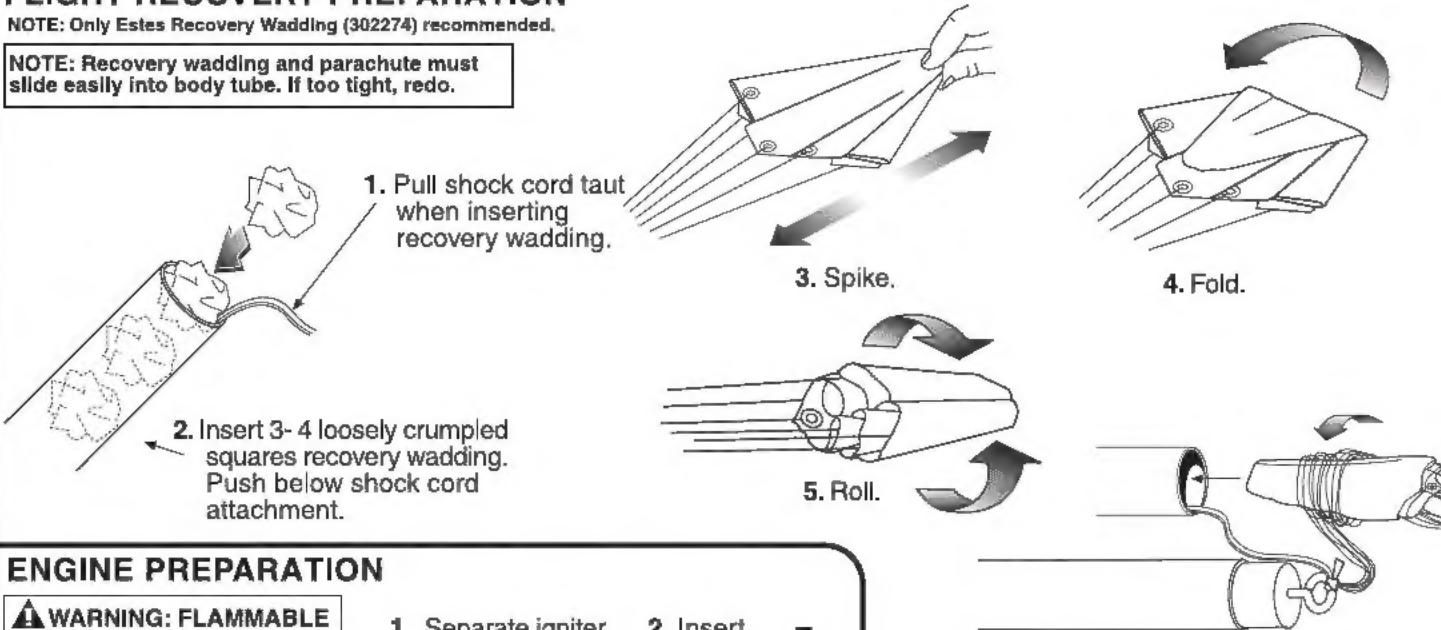
RECOVERY SYSTEM ATTACHMENT



FLIGHT RECOVERY PREPARATION

NOTE: Only Estes Recovery Wadding (302274) recommended.

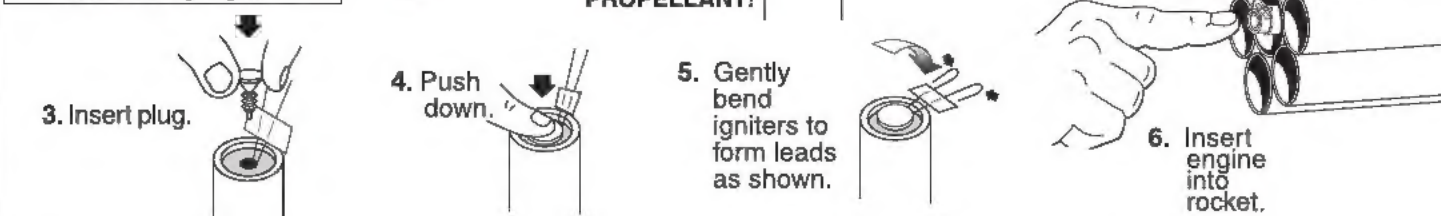
NOTE: Recovery wadding and parachute must slide easily into body tube. If too tight, redo.



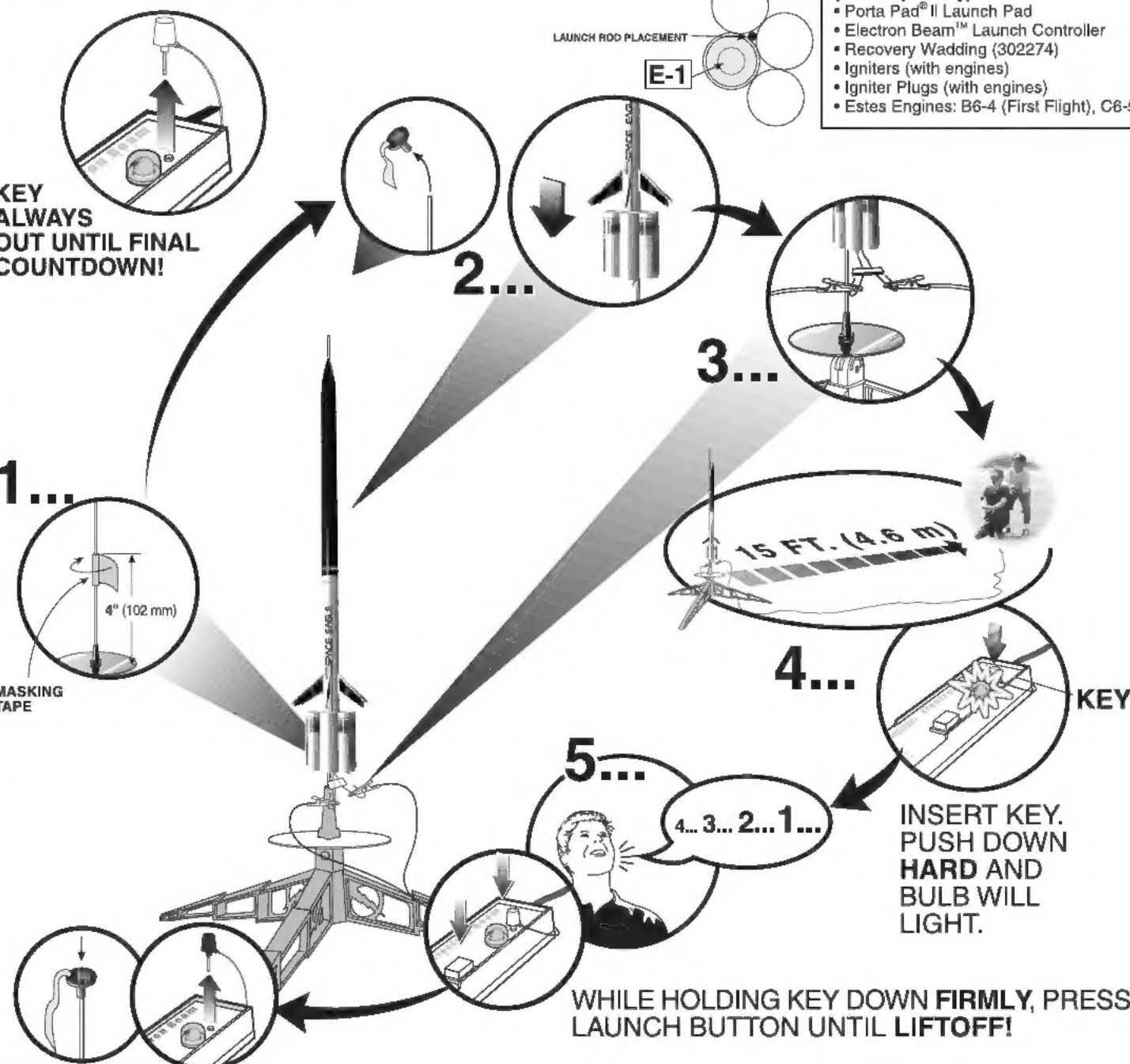
ENGINE PREPARATION

WARNING: FLAMMABLE

To avoid serious injury, read instructions & NAR Safety Code included with engines. **PREPARE ENGINE ONLY WHEN YOU ARE OUTSIDE AT THE LAUNCH SITE PREPARING TO LAUNCH!** If you do not use your prepared engine, remove the igniter before storing engine.



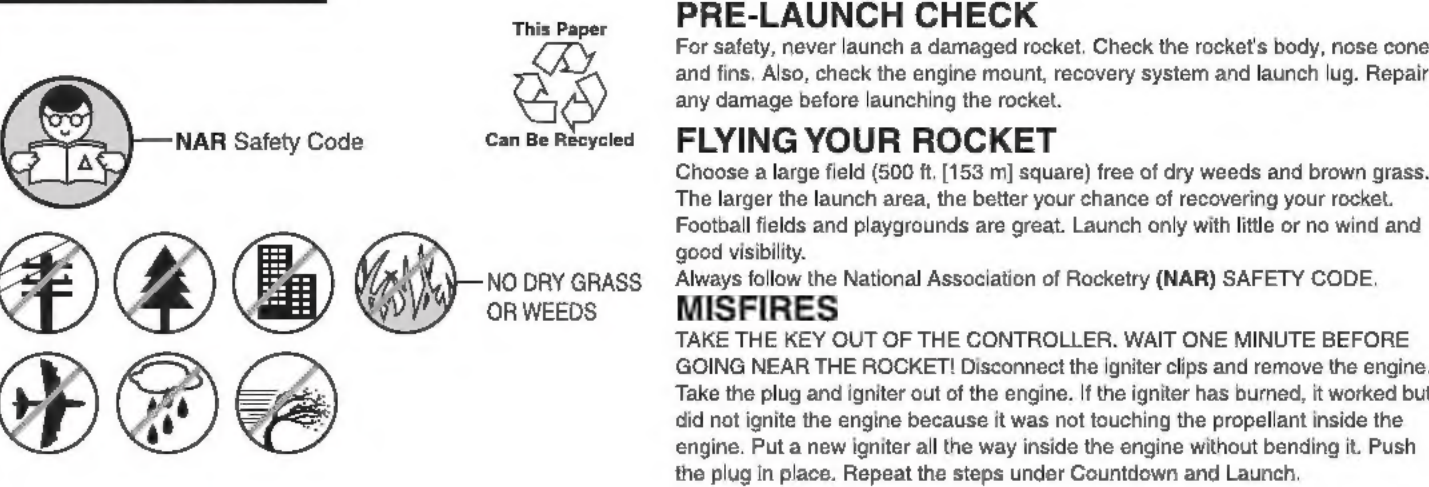
COUNTDOWN AND LAUNCH



ESTES LAUNCH SUPPLIES NEEDED (Sold Separately)

- Porta Pad® II Launch Pad
- Electron Beam™ Launch Controller
- Recovery Wadding (302274)
- Igniters (with engines)
- Igniter Plugs (with engines)
- Estes Engines: B6-4 (First Flight), C6-5

PRECAUTIONS



Estes-Cox Corp.  
1295 H Street, PO Box 227  
Penrose, CO 81240-0227  
Printed in Guangdong, China

SPACE EAGLE™

FLYING MODEL ROCKET KIT INSTRUCTIONS  
KEEP FOR FUTURE REFERENCE.

#3209

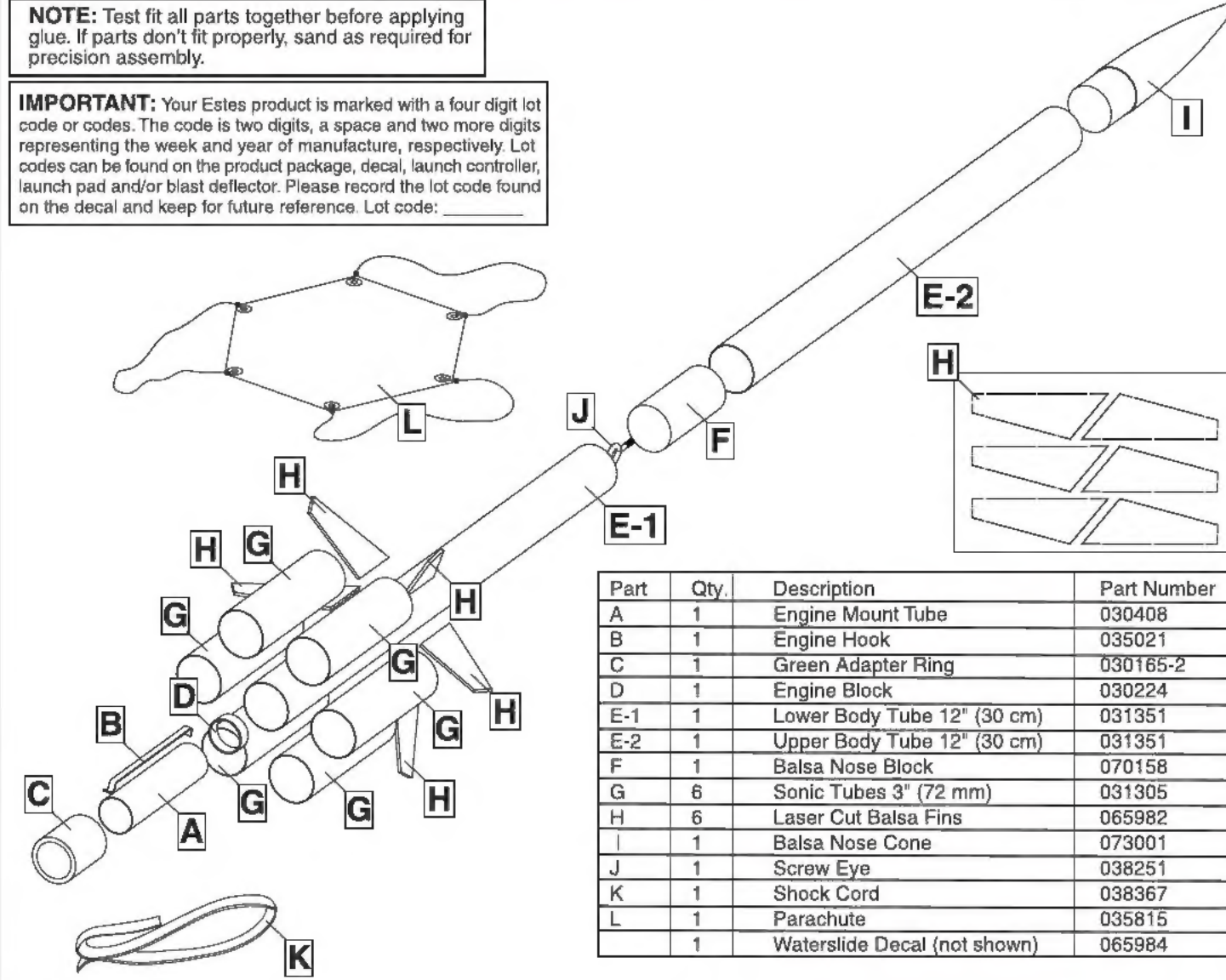
www.  
estes  
rockets  
.com

ASSEMBLY TIP

Read all instructions before beginning work on your model. Make sure you have all parts and supplies.

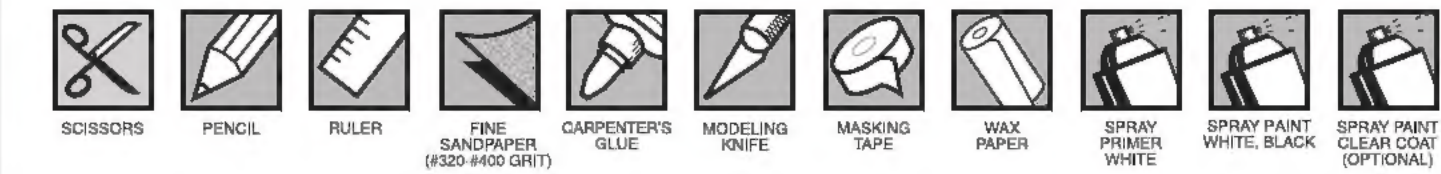
NOTE: Test fit all parts together before applying glue. If parts don't fit properly, sand as required for precision assembly.

IMPORTANT: Your Estes product is marked with a four digit lot code or codes. The code is two digits, a space and two more digits representing the week and year of manufacture, respectively. Lot codes can be found on the product package, decal, launch controller, launch pad and/or blast deflector. Please record the lot code found on the decal and keep for future reference. Lot code: \_\_\_\_\_



SUPPLIES

In addition to the parts included in the kit you will also need:





### TUBE MARKING GUIDE

(Make a copy if you want to keep instructions.)

SECTION 3  
SECTION 2  
SECTION 1

MATCHING LINES  
FL  
LR  
TUBE MARKING GUIDE  
MATCHING LINES  
OVERLAP TAB

### FIN PREPARATION

1. Sand both sides of balsa sheet with fine sandpaper (#320 or #400 grit).

2. Remove **H** from sheet.

3. Stack all **H** together. Sand edges smooth.

4. Sand leading edge round. **DO NOT** round root edges.

LEADING EDGE  
TRAILING EDGE  
ROOT EDGE

### ENGINE MOUNT ASSEMBLY

1. Measure and mark **A**.

2. Cut small slit at mark.

3. Insert **B** in slit.

4. Slide **C** to mark. Apply ring of glue to both sides of **C**.

5. Apply ring of glue to inside of **A**. Insert **D** until it stops. Let dry.

2-1/2" (64 mm)  
1" (25 mm)  
1/8" (3 mm)

### TUBE MARKING

1. Cut tube marking guide from instructions.

2. Tape guide on **E-1**. Mark fin lines **FL** and launch rod line **LR**.

3. Remove guide. Connect and extend all lines 6" (152 mm). Use door frame as a straight edge.

4. Measure and mark each **FL** where shown.

**E-1**  
DOOR FRAME  
4" (102 mm)

### SONIC TUBE ASSEMBLY

NOTE: Make 3 sets of 2.

1. Apply glue along one side of **G**.

2. Place next **G** along glue line. Let dry.

3. Repeat for other **G** assemblies.

**G** ASSEMBLY

### SONIC TUBE ATTACHMENT

1. Place wax paper on flat surface. Apply 3" (72 mm) long straight lines of glue to **FL** on both sides of **LR**.

2. Stand **E-1** on end. Position sonic tube assembly on glue lines with **LR** centered between the sonic tube assembly. Let dry.

3. Apply lines of glue along next two **FL**. Position next sonic tube assembly in place. Let dry.

4. Repeat for final sonic tube assembly. Let dry. Apply glue fillets between all sonic tubes. Let dry.

**E-1**  
3" (72 mm)  
FL  
LR  
FL  
FL

### FIN ATTACHMENT

1. Apply glue to root edge of **H**. Let dry 1 minute. Apply 2nd layer of glue.

2. Position **H** centered on **FL** forward of mark. Let dry.

3. Repeat for all **H**. Let dry.

**H**  
FL

### UPPER BODY TUBE ASSEMBLY

1. Measure and mark **F** at center.

2. Screw **J** centered into **F**.

3. Remove **J**. Place drop of glue in screw hole.

4. Screw **J** back in place. Let dry.

5. Check fit of **F** in **E-2**. Sand as required for easy insertion.

6. Apply glue around inside of **E-2**. Insert **F** to line. Wipe excess glue. Let dry.

**F**  
**J**  
**E-2**

### ENGINE MOUNT INSTALLATION

NOTE: Fins removed from drawing for clarity.

1. Apply ring of glue inside of **E-1**.

2. Align **B** with **LR** line.

3. Slide engine mount assembly in **E-1** until tube ends are even.

**E-1**  
1" (25 mm)

### NOSE CONE ASSEMBLY

1. Check fit of **I** in **E-2**.

2. Apply ring of glue inside of **E-2**.

3. Insert **I** in **E-2**. Wipe excess glue. Let dry.

HELPFUL HINT: IF NOSE CONE FIT IS...

TOO LOOSE  
ADD MASKING TAPE

TOO TIGHT  
SAND FOR FIT

### SHOCK CORD INSTALLATION

1. Cut shock cord mount from instructions.

2. Apply glue to section 2. Place **K** in glue. Fold forward.

3. Apply glue, fold forward.

4. Squeeze tight.

5. Apply glue to shock cord mount. Insert in body tube. Hold until glue sets. Let dry.

1 1/2" (38 mm)  
NO

### ROCKET FINISHING

NOTE: We have found Testors spray primers (Testors #2948 White Primer), Testors One Coat Lacquer spray paints, Testors Model Master spray paints and Testors Gloss Lacquer (#1961) to be excellent for providing a long lasting and durable finish on your rocket. Always be sure to spray your models outside or in a well ventilated area.

#### STEPS TO A QUALITY FINISH

- Insert shock cord into body tube and hold in place with paper.
- Lightly sand body tube, fins and nose cone with fine sandpaper (#320 or #400 grit).
- Apply glue fillets to fin tube joints.
  - Let dry overnight.
- Use a stick inserted into the engine mount end of the rocket for painting.
- Hold the upper body section by the screw eye for painting.
- We recommend a good filler/primer to be applied to the balsa fins and nose cone before painting.
- Apply 1-2 light coats of white primer to rocket body and nose cone, lightly sanding with fine sandpaper (#320 or #400 grit) between coats.
  - Allow to dry between coats.
- Apply gloss white to lower rocket section.
  - Let paint dry overnight (24 hours is best).
- Spray upper body section gloss black.
  - Let paint dry overnight (24 hours is best).
- Apply waterslide decals where shown.
  - Cut decals to be applied from decal sheet, trimming close to the decal edge.
  - Place decal in bowl of warm water until decal begins to curl.
  - Remove decal, position in place and slide decal off of backing material and onto the model as close to final position as possible.
  - Gently blot out excess water with a clean paper towel.
  - Allow decals to set overnight before applying protective clear coat. This will provide added protection and shine to your Space Eagle™ rocket!